

Date: Fri, 1 Jul 94 08:04:57 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V94 #729
To: Info-Hams

Info-Hams Digest Fri, 1 Jul 94 Volume 94 : Issue 729

Today's Topics:

BAYCOM packet modem + Lost mail file...
 Clipart
 FCC Address?
 NJ Ham Plates update: GOT 'EM!
 QST H/Brew IsoLOOP
RB 332 MGT Successful RACES Units 2/3
RB333 Mgt: Successful RACES Units 3/3
 temperature conversion
Wanted: Novice on-air CW practice
Welcome to rec.radio.info!

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 1 Jul 1994 08:01:18 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!EU.net!news.forth.gr!
helios.intranet.gr!phaethon!demetre@network.ucsd.edu
Subject: BAYCOM packet modem + Lost mail file...
To: info-hams@ucsd.edu

CQ Netters...

Recently I posted requesting information on homebrewed packet
modems, I received several replies but I managed to purge my
mail file :-(
Please the people who wrote to me, get in touch with me via E-mail...

TNX-73's

demetre@intranet.gr

Date: Fri, 01 Jul 94 08:06:37 EST
From: ihnp4.ucsd.edu!agate!iat.holonet.net!dbot.com!sysop@network.ucsd.edu
Subject: Clipart
To: info-hams@ucsd.edu

>The University of Warwick Amateur Radio Society is currently in the process
>of putting together some publicity for next year's fresher's fair. I've
>been looking for radio-related clipart to include, but to no avail (all
>I could find was an ARRL logo, which isn't much use in the UK). Does anyone
>have any ideas where I might find some on the net? (most formats will do).

> Thanks a lot,

> Rob (President UOWARS).

Rob,

If you dont find any reply's on the Internet you can call my BBS
direct, I have 2 files that contain various clip art for Ham Radio,
everything from the ARRL Logo's that you dont want to schematic symbols.

Most of the stuff is in PCX format. The two specific files I have are:
HAM-ART.ZIP and CLIPAR.ZIP These can be found in directory HAM-6 on my
system. The numbers are listed below.

73

Tim Mayberry
sysop@dbot.com

* Database of Tennessee * 901-855-4124 14400 BPS * 901-855-4127 28800 V.FC *
* FREE ACCESS * Over 2100 Ham Radio related files, Over 5000 gernerall files *
* Full access on first call. F6FBB Export's and Support from KA4P F6FBB BBS *
* For more information connect direct or send E-Mail to: sysop@dbot.com *

Date: 1 Jul 94 08:07:41 -0800
From: ihnp4.ucsd.edu!usc!nic-nac.CSU.net!charnel.ecst.csuchico.edu!
yeshua.marcam.com!wrdis02.robins.af.mil!apollo.robins.af.mil!
woodj@network.ucsd.edu
Subject: FCC Address?

To: info-hams@ucsd.edu

In article <2unklu\$5kt@progress.progress.com>,
glenn@progress.COM (Glenn Meader) writes:
> I need to renew my license. I got a 610 form - now what's
> the correct address to send it to at the FCC?

FEDERAL COMMUNICATIONS COMMISSION
1270 FAIRFIELD RD
GETTYSBURG PA 17325-7245

-...-

Be sure to use the most recent issue of FCC Form 610! They no longer
accept 610s older than the November 1993 issue.

Be sure to attach a photocopy of your _signed_ license (or the actual
license) to the back of the 610.

Be prepared to wait!

-...-

73, Jim, KA4GHX

Date: Fri, 1 Jul 1994 11:10:41 GMT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!zombie.ncsc.mil!
admii!ovation!ramcad.pica.army.mil!mellis@network.ucsd.edu
Subject: NJ Ham Plates update: GOT 'EM!
To: info-hams@ucsd.edu

Came in the mail yesterday. Put them on in the rain :-)

17 weeks. I called NJ DMV early this week, and the person
I talked to said that theirs (Special Plates Division) was
the only division allowed to work overtime.

Seems NJ has a special plate for Square Dancing, for Penn
State Alumni, Rutgers Alumni, and lots of other interests.

Also, he said that prices on most special NJ plates (vanity, etc.)
will go up in the near future. Not sure about amateur plates,
that may require legislation to change from the current \$10.

Mark E. Ellis N2WZB System(s) Administrator
 PA&TD Software Quality Engineering Branch
<mellis@ramcad.pica.army.mil> SMCAR-QAH-A, Bldg 62N

Picatinny Arsenal, NJ

Date: Fri, 01 Jul 94 07:33:34 PDT
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.onramp.net!
usenet@network.ucsd.edu
Subject: QST H/Brew Iso-loop
To: info-hams@ucsd.edu

Did you buy QJR's capacitor? I did for my loop, and was mighty impressed with the cap and the low price he got for it. Unfortunately, the antenna fell in transit to my new home, and have yet to get the ceramics fixed.

What kind of stepper did you use? I went to H&R and got some airpax devices and the hurst controller. good enough resolution.

-G

Date: 1 Jul 94 13:56:38 GMT
From: news-mail-gateway@ucsd.edu
Subject: RB 332 MGT Successful RACES Units 2/3
To: info-hams@ucsd.edu

Bid: \$RACESBUL.332
Subject: RB 332 MGT Successful RACES Units 2/3

From: W6WWW@KD6XZ.#NOCAL.CA.USA.NOAM
To : RACES@ALLUS

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL COMMUNICATIONS VOLUNTEERS IN GOVERNMENT SERVICE
INFO: ALL AMATEURS U.S (@USA: INFORMATION); CAP, MARS
FROM: CA GOVERNORS OFFICE OF EMERGENCY SERVICES
(W6SIG@WA6NWE.CA) Ph: 916-262-1600
2800 Meadowview Rd., Sacramento, CA 95832
Landline BBS Open to All: 916-262-1657

RB 332 MGT Successful RACES Units 2/3
RELEASE DATE: June 27, 1994

This SUCCESSFUL standard came from the County of Orange RACES unit via its April '93 newsletter, "NETCONTROL": [rephrased]

"Setting requirements of participation and adhering to them,

including removal of any who fail to participate in most activation's and drills, or are inactive. RACES is a reserve public safety communications organization that owes the public a well-trained and active group. Being untrained or "unpracticed" could cost a life during certain types of emergencies and the RACES unit cannot afford to take that chance."

[Continuing extract:] "It is realized that other commitments involving job, family and other matters must be made. If, however, those commitments are more important to you than RACES and prevent you from full support of required activities, then you should not be a RACES member. If you do not put all RACES drills and scheduled activation's on your calendar, you should not be a RACES member. If you put scheduled RACES activities on your SOCIAL calendar, to be at a lower priority than activities on your "important stuff" calendar, you should not be a RACES member. RACES is NOT a social activity (even though association with fellow RACES members is enjoyed by many of us more than with anyone else). RACES is a commitment to provide the very best in government-supporting (sometimes life-saving) communications, through continuous practice (by drills and reporting to all activation's) and efforts toward improving ourselves and each other technically and operationally."

While this is a painful procedure, it is better to have an active unit of 3 trained and dedicated participants than one with 13 untrained who are not familiar with the agency and are not dedicated to the unit purpose. In other words, let the luke-warm migrate to luke-warm efforts; keep only those who realize they made a serious commitment to the agency they signed up to support, and who are willing to show they can be relied on whenever that agency needs them.
EOM

RACES Bulletins are archived on the Internet at ucsd.edu/hamradio/races or in hamradio/packet/tcpip/incoming and can be retrieved using FTP. The opinions stated are those of the author of the bulletin and not the poster.

Date: 1 Jul 94 13:58:07 GMT
From: news-mail-gateway@ucsd.edu
Subject: RB333 Mgt: Successful RACES Units 3/3
To: info-hams@ucsd.edu

Bid: \$RACESBUL.333

Subject: RB333 Mgt: Successful RACES Units 3/3

From: W6WWW@KD6XZ.#NOCAL.CA.USA.NOAM
To : RACES@ALLUS

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO
INFO: ALL COMMUNICATIONS VOLUNTEERS IN GOVERNMENT SERVICE
INFO: ALL AMATEURS U.S (@USA: INFORMATION); CAP, MARS
FROM: CA GOVERNORS OFFICE OF EMERGENCY SERVICES
(W6SIG@WA6NWE.CA) Ph: 916-262-1600
2800 Meadowview Rd., Sacramento, CA 95832
Landline BBS Open to All: 916-262-1657

RACESBUL.333 Mgt: Successful RACES Units 3/3
RELEASE DATE: July 4, 1994

Successful emergency communications units have their counterpart in those that FAIL. While we may not want to look at the reasons, it is instructive to do so:

1. One of the prime reasons RACES units fail is the attitude in local government to the effect that "we have good radio systems so we don't need anything else."
2. A second reason is that of mental approach to the use of the unit, in that the local attitude is one of "we will call you out if all other communications fail."
3. Local officials do not realize the significant difference between a disciplined unit such as SAR and an undisciplined unit with which it may have a communications memorandum of understanding (MOU) [if that be the case.]
4. Not acquiring the knowledge of "how to" work with an in-house communications unit.
5. The improper choice of the person for the Radio Officer.
6. Not realizing the importance of, and knowing how to discharge a Radio Officer that is not fulfilling his/her purpose.
7. An unsatisfactory past experience with a volunteer in one capacity or another.
8. Not having an adequately prepared RACES plan.
9. Inadequate staff. In such a case the local official, often

wearing many "hats", feels there is no way to undertake a RACES program. In some cases that may be an accurate assessment, yet there are those where undertaking a RACES program even in face of an inadequate staff and too many "hats" helps to remedy the very problem.

10. Delegation of RACES program coordination to a technically oriented person rather than to one oriented to administration and management of operations.

To some degree, reasons that the creation, care and maintenance of an emergency communications unit fails is a reflection (as in a mirror) of the reasons for those that are imminently successful. Active involvement is the opposite side of neglect. Knowledge is the opposite of not caring enough to become knowledgeable. It's really up to the paid staff of the agency to learn what it takes to make a unit successful. In every instance that has been done it has more than paid off, and handsomely, at that.

Want help? The Auxiliary Communications Service at State OES Headquarters is available to assist a jurisdiction upon request. [Thanks to Orange County RACES for the material and ideas. End.]

RACES Bulletins are archived on the Internet at ucsd.edu in [hamradio/races](http://ucsd.edu/hamradio/races) or in [hamradio/packet/tcpip/incoming](http://ucsd.edu/hamradio/packet/tcpip/incoming) and can be retrieved using FTP. The opinions stated are those of the author of the bulletin and not the poster.

Date: 1 Jul 94 13:09:06 GMT
From: news-mail-gateway@ucsd.edu
Subject: temperature conversion
To: info-hams@ucsd.edu

>William=E.=Newkirk%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM says:

>

>>>geez, people make this so complicated.

>

>>>C = 1.8 (F-32).

>

> Bwah hah! At least some of them got it right, though.

>

> (I would have e-mailed him, but look at the length of
> that address).

okokokokokokok....

$$F = (1.8 * C) + 32$$

(this time -40 = -40...see what happens when you don't use an RPN calculator?)

and there is an alias for the e-mail name:

wb9ivr%Pubs%GenAv.Mlb@ns14.cca.CR.rockwell.COM

see? much shorter...

Date: 1 Jul 1994 14:04:58 GMT
From: ihnp4.ucsd.edu!agate!spool.mu.edu!news.nd.edu!news1.oakland.edu!
vela.acs.oakland.edu!prvalko@network.ucsd.edu
Subject: Wanted: Novice on-air CW practice
To: info-hams@ucsd.edu

I'll never forget asking a couple guys at a club meeting how fast they could send/rcv code... after having my novice licence for a couple months.

I just shook my head when they said something like 18 words per minute! I thought that to be absolutely impossible.

Don't be afraid to send QRS (send slower) it's not a crime to be a new ham.

73 es GL! paul wb8zjl

Date: Thu, 30 Jun 1994 21:00:08 MDT
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!news.cac.psu.edu!
news.pop.psu.edu!ctc.com!news.mic.ucla.edu!unixg.ubc.ca!nntp.cs.ubc.ca!alberta!
ve6mgs!rec-radio-info@network.ucsd.edu
Subject: Welcome to rec.radio.info!
To: info-hams@ucsd.edu

Archive-name: radio/rec-radio-info/welcome
Last-modified: \$Date: 1994/01/02 22:00 \$
Version: \$Revision: 1.06 \$

*** Welcome to rec.radio.info! ***

Welcome to rec.radio.info, a group that aims to provide a noise-free source of information and news for the entire rec.radio hierarchy.

Two introductory articles about rec.radio.info are posted to the group and to news.answers every two weeks. You are now reading the first article, which explains what rec.radio.info is, and answers some Frequently Asked Questions. The second article is titled "Submission Guidelines", and you only need to read it if you want to submit an article to rec.radio.info.

You can skip to the next section of this article by searching for the next " -- " string. The sections available are:

- What is the purpose of rec.radio.info?
- Why are messages almost always cross posted to rec.radio.info?
- What is a 'follow-up', and what does 'moderated' mean?
- OK, so now I know what 'moderated' means. Tell me more.
- What type of material is considered inappropriate?
- I do not have access to news, how can I get the information posted to rec.radio.info?
- Will the material appearing in rec.radio.info be archived somewhere?
- I have a regular posting with timely information, is there a way to speed up it's delivery, or automate for more convenience?

-- What is the purpose of rec.radio.info?

The purpose or charter of rec.radio.info is to provide the Usenet community with a resource for information, news, and facts about any and all things radio.

All the other rec.radio groups are intended for discussions and general chit chat about radio. Rec.radio.info will contain informational, factual articles only. Follow-ups are redirected to an appropriate other group, and further discussion (if any) will not take place in rec.radio.info.

In order to ensure that rec.radio.info contains only appropriate articles, it was decided to create the group as a moderated newsgroup.

-- Why are messages almost always cross posted to rec.radio.info?

It provides a "tag" for each article to be assembled into a filtered presentation in rec.radio.info (even with cross-posting, only one message, with a unique Message-ID, is propagated across the net). This tag also facilitates a pre-existing method of dropping or cancelling the articles locally within the discussion groups if you don't want to see them. This accommodates individuals who want to separate the bulletins from the discussions, discussions from the bulletins, as well as those who are adamant about not reading another newsgroup and wanted to see everything all in one basket.

With the total size of Usenet (in number of newsgroups and total traffic) doubling every year or so, this is no insignificant contribution to reducing

information noise and chaos. Making the discussion groups a catch-all, and making extra newsgroups filters on that catch-all, is also the most realistic way to implement such a scheme (It's not intuitively obvious what the charter, contents, and general appropriate topics for each and every newsgroup are. Seeing FAQ's and charter/intro postings in the home newsgroup is beneficial for new readers).

By cross-posting one only is adding a few tens of bytes to each bulletin (to specify the extra group on the Newsgroups line), but are adding the capability for very powerful filtering features available on most news servers, listservers and readers. Your local news guru could probably explain these features in more detail.

In rn, for example, according to Leanne Phillips in her rn kill-file FAQ, add a line of the form:

```
/Newsgroups:.*[ ,]rec\.radio\.info/h:j
```

either in ~/News/KILL (if you don't want to see rec.radio.info articles anywhere) or ~/News/rec/radio/amateur/misc/KILL (if you don't want to see them just in rec.radio.amateur.misc). The latter method means your kill file will only be consulted during rec.radio.amateur.misc (and hence runs more efficiently), and will probably work for most people.

In nn, according to Bill Wohler in his nn FAQ, add a line of the form:

```
rec.radio.info:!s/:^
```

in ~/.nn/kill (if you don't want to see rec.radio.info articles anywhere), or put the following lines:

```
sequence
```

```
rec.radio.info
```

```
rec.radio.
```

at the end of ~/.nn/init in order to see all the rec.radio.info bulletins first, then read the remaining rec.radio.* without the bulletins.

-- What is a 'follow-up', and what does 'moderated' mean?

If you are new to Usenet and are not familiar with the terminology, you might want to read the general introductory articles found in the newsgroup news.announce.newusers. Doing so will make your life on the net much easier, and will probably save you from making silly beginner's mistakes.

If you think that at this moment you are reading an echo, a conference, or a bulletin board, I'd also strongly suggest a trip over to news.announce.newusers.

For the rest of this article, I will assume you have a basic knowledge of Usenet terminology and mechanics.

A moderated group means that any article that needs to be posted to the group has to be accepted by the moderator of the group. Since we need to ensure that

followups to an article (discussion) do not show up in the rec.radio.info newsgroup, the 'Followup-To:' header line contains a newsgroup that is appropriate for discussions about the specific article.

-- OK, so now I know what 'moderated' means. Tell me more.

Rec.radio.info is a moderated newsgroup, which means that all articles submitted to the group will have to be approved by the moderator first.

The current moderator of the group is Mark Salyzyn. Submissions to rec.radio.info can be posted, or e-mailed to:

rec-radio-info@ve6mgs.ampr.ab.ca

Comments, criticisms, suggestions or questions about the group can be e-mailed to:

rec-radio-request@ve6mgs.ampr.ab.ca

But before you do so, please be sure to check out the "Submission Guidelines" article.

The influence of the moderator should be minimal and of an administrative nature, consisting chiefly of weeding out obviously inappropriate articles, while making sure correct headers etc. are used for the appropriate ones.

-- What type of material is considered inappropriate?

There are three broad categories of articles which will be rejected by the moderator:

- 1) Requests for information: rec.radio.info is strictly a one-way street. I receive information in my mailbox; I then post it to rec.radio.info. Requests for specific information belong in the normal discussion newsgroups. If your request gets answered, you might consider passing the answer on to rec.radio.info, though. Especially if you can edit it into a informational, rather than a discussion, format.
- 2) Obvious discussion articles, or articles that appear unsubstantiated.
- 3) Commercial stuff: a relatively unbiased test of a radio product would be accepted, but any hint of for-profit might be reason for rejection. For three reasons: This is not the purpose of the list, for-profit is a controversial topic, and this list may be passed onto Amateur Packet Radio (where for-profit is prohibited except under certain provisos).

rec.radio.swap (or possibly comp.newprod) may be more deserving of the posting in any matter.

Similarly, copyrighted material generally cannot be used. If it's TRULY worthwhile to the net, I would recommend obtaining permission from the copyright holder. Please note the source, and if permission was given. I reserve the right to make the final decision concerning appropriateness in all situations. In most cases, a brief summary of, or pointer to, the copyrighted information may be all I can allow.

-- I do not have access to news, how can I get the information posted to rec.radio.info?

brian@UCSD.EDU (Brian Kantor) has kindly supplied a mail list server for rec.radio.info. Non of the articles will be digested, due to their size, so you will receive individual mailings for every article posted to the group.

Mail sent to radio-info@ucsd.edu will be forwarded to the moderator and thus is an alias to rec-radio-info@ve6mgs.ampr.ab.ca

To subscribe and unsubscribe via the listserver; the format for that is

```
sub address radio-info
unsub address radio-info
```

where 'address' is your full mailing address. Send this request to

```
listserv@ucsd.edu
```

Note that the server will automatically delete any address that bounces mail. If you leave the address portion blank, it will try to deduce your address from the mail headers. This may not work if you are on bitnet, milnet or some other non-Unix host, so it is recommended to put your return address in any case. For example:

```
sub mymailbox@myhost.mydomain.mil radio-info
or
sub MEMEME01@DMBHST.bitnet radio-info
```

or something like that.

-- Will the material appearing in rec.radio.info be archived somewhere?

< Dated information here >

Yes. Still firming up details at the moment but here is a preliminary list:

- unbc.edu as maintained by Lyndon Nerenberg <lyndon@unbc.edu>
- nic.funet.fi maintained by Risto Kotalampi <rko@cs.tut.fi>
saved to /pub/dx/text/rec.radio.info currently stored as
numbered files.

Effectively this means that anything you post to rec.radio.info will be permanently stored, so your work will not be lost.

-- I have a regular posting with timely information, is there a way to speed up it's delivery, or automate for more convenience?

Yes, there is! It may take a bit of chatter with the moderator, but we are willing to take responsible people and provide them the means of posting the articles directly from their site. We will try everything we can as we fully realize that DX (distant signal) and astronomical data can be somewhat transitory. We are also willing to allow regular posters of information the same courtesy, even if the information is not as time critical.

We refer to this as self-moderation, which is partly based on the model for news.answer. This requires co-operation and good will to be beneficial to the community in the rec.radio hierarchy.

I suggest reading the posting guidelines for more information. I am open to suggestions.

I thank the following individuals for their input into this article:
rec.music.info moderator Leo Breebaart rec-music-info@cp.tn.tudelft.nl
rec.radio.broadcasting moderator Bill Pfeiffer wdp@gagme.chi.il.us
Paul W. Schleck, KD3FU pschleck@unomaha.edu
Ian Klufft, KD6EUI iklufft@uts.amdahl.com

--

Mark Salzyzn -- Moderator rec.radio.info
Submissions to: rec-radio-info@ve6mgs.ampr.ab.ca
Administrivia to: rec-radio-request@ve6mgs.ampr.ab.ca
* Requests for information do *not* belong in rec.radio.info *

Date: 1 Jul 1994 14:05:22 GMT
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!news.umbc.edu!
haven.umd.edu!cville-srv.wam.umd.edu!ham@network.ucsd.edu
To: info-hams@ucsd.edu

References <2u232d\$hus@umcc.umcc.umich.edu>, <pc5RhQa.armond@delphi.com>,
<2v0gqe\$fjrr@safety.ics.uci.edu>md
Subject : Re: Kenwood TS-450S/AT or Yaesu 890 w/AT -- HELP!

It has been my experience that a lot of the equipment made by Kenwood since they put out the 520/530/830/120 series has been flashy junk.

(Flameproof suit on)

I speak out of experience - we had a 930 that ate its PA board, which proceeded to take down the power supply. This took several months to get repaired (circa 1987). We also had a 440S/AT that went to Field Day in 1988. It was sitting in the back of the car in the sun, probably at 110 degrees, and even after letting it cool off, it had no frequency stability at all.

I was to buy a 440S/AT from a guy on internet. One of the main ICs was apparently cold-soldered, and the frequency display would thus go blank from time to time.

Go and get a Ten Tec. They may still have similar problems, but at least they'll tell you how to fix them (or send you free replacement parts), and they actually feel SORRY about you having to go through the trouble.

Scott NF3I

--

73,

----- The
 \ / Long Original
Scott Rosenfeld Amateur Radio NF3I Burtonsville, MD | Live \$5.00
WAC-CW/SSB WAS DXCC - 125 QSLed on dipoles -----| Dipoles! Antenna!

Date: 1 Jul 1994 14:17:48 GMT
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!spool.mu.edu!news.nd.edu!
news1.oakland.edu!vela.acs.oakland.edu!prvalko@network.ucsd.edu
To: info-hams@ucsd.edu

References <2u232d\$hus@umcc.umcc.umich.edu>, <pc5RhQa.armond@delphi.com>,
<2v0gqe\$fjr@safety.ics.uci.edu>oa
Subject : Re: Kenwood TS-450S/AT or Yaesu 890 w/AT -- HELP!

Hey Clark,

Boy! I didn't at first see that you were the guy responding to that post, I thought you were just another Kenwood Freak! I was wondering what "neck of the woods" you were from if you thought EITHER Kenwood OR Yasue had "good audio!" As I read it I though, sheeze, here's another clone that never heard a TenTec.

BTW, I've not heard a 890 compared to MY ten year old Corsair, and I also have come VERY close to buying one for portable/mobile use. But I'd not consider a TS450 after owning the 440Sat for a couple years and being able to A/B it against the Corsair.

73 =paul= WB8ZJL

DISCLAIMER: The above message was posted by a mindless Ten*Tec freak

End of Info-Hams Digest V94 #729
